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DATE MAILED: 03/08/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/736,392	12/15/2003	Deepak Shukla	84398AEK	6187
7590 03:08/2005			EXAMINER	
Paul A. Leipol			WU, SHEA	AN CHIU
_	Patent Legal Staff Eastman Kodak Company			PAPER NUMBER
343 State Street			1756	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Comment	10/736,392	SHUKLA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Shean C. Wu	1756			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a rep ly within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH e, cause the application to become ABAI	ly be timely filed 30) days will be considered timely. 35 from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
2a) This action is FINAL . 2b) ☐ This	☐ This action is FINAL . 2b) ☐ This action is non-final.				
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 and 23 is/are rejected. 7) Claim(s) 18-22 and 24 is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		-			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	es have been received. es have been received in Apprintly documents have been received in	olication No eceived in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/15/03.		nmary (PTO-413) Mail Date rmal Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-17 and 23 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the azolium salt disclosed therein, does not reasonably provide enablement for broad species represented by formula (I). For example, the X, Z and R groups may form a ring. The species for forming a "ring" in the specification are only exemplified for certain rings. There are no ring containing four, seven and up except naphthalenyl ring. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use in the invention commensurate in scope with these claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1-8 and 10-17 are rejected under 35 U.S.C. 102(b)/(e) as being anticipated by Ono (EP 1,033,731 or equivalent US 6,495,067).

The reference discloses an electrochemical cell having an electrolyte containing liquid crystal compound(s) of formula (IA). The reference liquid crystal composition comprising at least one liquid crystal compound represented by formula (I-1) or (I-2) and at least one compound selected from an alkali metal salt and an alkaline earth metal salt (see from page 3, line 9 to page 4, line 4 and section [085]). The alkali or alkaline earth metal salt is added in such an amount that is uniformly mixed with the liquid crystal compound or the liquid crystal compound mixture, which is preferably 0.1 to 5 molar equivalents to the total amount of the liquid crystal compounds. The formula (I-2) of the reference contains an azolium salt (see formulae F-42, F-44 to F-46 and F-51 to F-55). The photoelectric device of the reference comprises a multiple layer including an electrically conductive substrate, a photosensitive layer, a charge transporting layer and a counter layer (see Figure 1 and col. 39, lines 5-60). The reference teaching anticipates the claimed invention.

5. Claims 1-4, 6-7, 11-12 and 14-15 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2002-358821 or equivalent US 2004/0169158.

The reference discloses that the liquid crystalline ion conductor is formed by mixing organic fused salt and liquid crystalline molecule having a part compatible with the organic fused salt and a liquid crystal aligning part aligning with the organic fused salt, or liquid crystalline inorganic molecule. See Figures 4 and 5, which each cell

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comprises a multiple layer including a substrate and liquid crystal layer. The organic molten salt contains an imidazoline cation and anions (see section [0024] of US '158). See Examples 1-4 and Tables 1-3. The reference anticipates the claimed invention.

Allowable Subject Matter

- 6. Claims 18-22 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The examiner can normally be reached on 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shean C Wu
PRIMARY EXAMINER